



Attorney's Docset No.: 07148-108001 / A15-549.04

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Jan G. Jaworski et al.
Serial No. : 09/877,476
Filed : June 8, 2001
Title : FATTY ACID ELONGASE 3-KETOACYL COA SYNTHASE POLYPEPTIDES

Art Unit : 1638
Examiner : E. McElwain

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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RESPONSE

In response to the Office Action mailed February 26, 2003, please amend the application as follows:

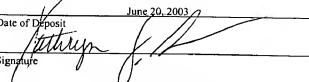
In the Specification:

Please replace the paragraph bridging pages 9 and 10 with the following amended paragraph:

a. The above-described polypeptides include a first polypeptide segment that can serve as a membrane anchor. Such a segment has properties that result in the elongase KCS polypeptide being anchored to a membrane, such as a lipid bilayer, detergent bilayer, micelle, or cell membrane. Possession of membrane anchoring properties may be the result of the primary structure, secondary structure and/or tertiary structure of the segment. For example, the segment may contain one or more transmembrane domain(s). Alternatively, a post-translational modification of an amino acid residue within the segment can result in the polypeptide being anchored to a membrane. Suitable modifications include, but are not limited to, covalent attachment of a lipid (e.g., a glycosyl phosphatidylinositol anchor) or a carbohydrate (e.g., an oligosaccharide). See, Alberts et al., *The Cell*, 2nd Edition, Garland Publishing, New York, pp 284-298 and Lodish et al., *Molecular Cell Biology*, 3rd Edition, Scientific American Books,

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

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